



# ENABLING THE NEW ENERGY PARADIGM

Plateau Energy Metals Inc. is a Canadian company focused on its **Lithium** and **Uranium** properties on the **Macusani Plateau** in southeastern Peru.



## Strong Management Team & Board

- Exploration to operations leadership
- Peruvian technical, environmental, permitting and community relations teams



## Consolidated Land Package

Macusani Plateau, Puno, Southern Peru

- 100% Control: 930 km<sup>2</sup> in the world's largest underdeveloped lithium and uranium district<sup>(1)</sup>



## Excellent Infrastructure

- Labour, water and hydro-electric power
- Transport (major highway)
- Reagents supply in-country (H<sub>2</sub>SO<sub>4</sub>)



## Mining Supportive Jurisdiction

- Supportive government and local communities



## Falchani Lithium

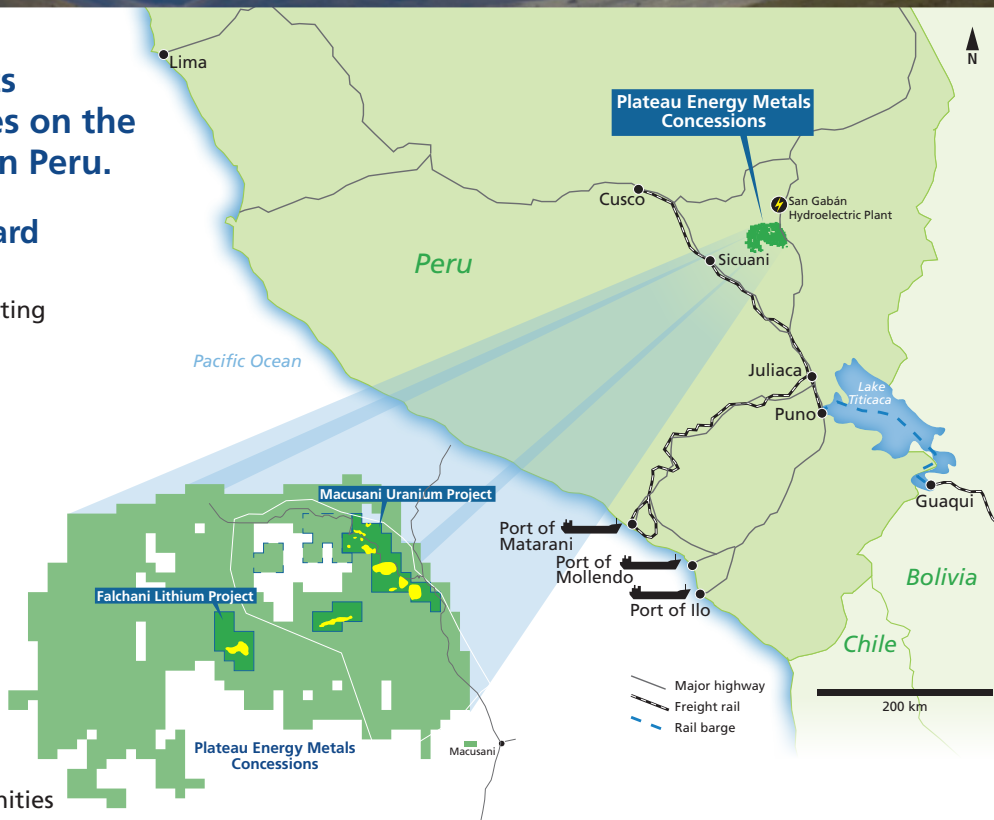
- Large high-grade volcanic-hosted hard rock lithium deposit
- Amendable to open pit and scalability
- Conventional processing routes demonstrate a high purity (99.74%) lithium carbonate
- Equivalent of a "fully integrated" hard rock project at site
- Large mineralized footprint – 30% drilled to date



## Macusani Uranium

- Strong and resilient project economics
- Shallow, volcanic supergene/surficial uranium deposits
- Multiple exploration targets
- Optimization plans in review
- Scalable, flexible growth plan

<sup>(1)</sup> See footnote 1



## Management & Board

Alex Holmes, *CEO, Director*

Laurence Stefan, *President & COO, Director*

Philip Gibbs, *CFO*

Ted O'Connor, *Director, Technical Advisor*

Alan Ferry, *Chair*

Maryse Belanger, *Director*

Wayne Drier, *Director*

Christian Milau, *Director*

Shares outstanding (as at Sept 24, 2019)  
~85.5 million

Market capitalization (as at Sept 24, 2019)  
~C\$22 million

Analyst Coverage  
**Gabriel Gonzalez, Echelon Wealth Partners**  
**David Talbot, Eight Capital Corp.**  
**Colin Healey, Haywood Securities Inc.**

# Falchani Lithium Highlights<sup>(1)</sup>



## High Grade Lithium-rich Tuff - +3,300 ppm Li

- Indicated\*: ~42.5Mt at 3,491 ppm Li (0.79Mt Li<sub>2</sub>CO<sub>3</sub>) (equiv)
- Inferred\*: ~123.6Mt at 3,243 ppm Li (2.13Mt Li<sub>2</sub>CO<sub>3</sub>) (equiv)

## Lithium-rich Tuff + Upper & Lower Breccia

- Indicated\*: ~60.9Mt at 2,954 ppm Li (0.96Mt Li<sub>2</sub>CO<sub>3</sub>) (equiv)
- Inferred\*: ~260.1Mt at 2,706 ppm Li (3.75Mt Li<sub>2</sub>CO<sub>3</sub>) (equiv)

## Growth potential

- Large mineralized footprint, ~ 30% drilled to date

## Metallurgy

- Robust metallurgical testing indicates conventional processing (tank leach) can produce a high purity (99.74%) lithium carbonate

## Development potential

- Scalable, bulk tonnage, near surface with PEA around late 2019

\* Refer to "Mineral Resource Estimates for the Falchani Lithium Project in the Puno District of Peru", effective March 1, 2019 and filed on SEDAR in April 2019, prepared by Mr. Stewart Nupen of The Mineral Corporation, an Independent QP under NI 43-101. Mineral resources that are not mineral reserves do not have demonstrated economic viability.

<sup>(1)</sup> See footnote 1

# Macusani Uranium Highlights<sup>(1)</sup>

## Strong Project Economics\*\*

- NPV = US\$ 603 M | IRR @ 40.6% | Pay-back in 1.8 years
- Large-scale with production of ~6 Mlbs U<sub>3</sub>O<sub>8</sub> for 10 years
- Low cost: ~US\$ 17/lb cash costs and ~US\$ 300M initial capital

## Uranium Resources\*\*\*

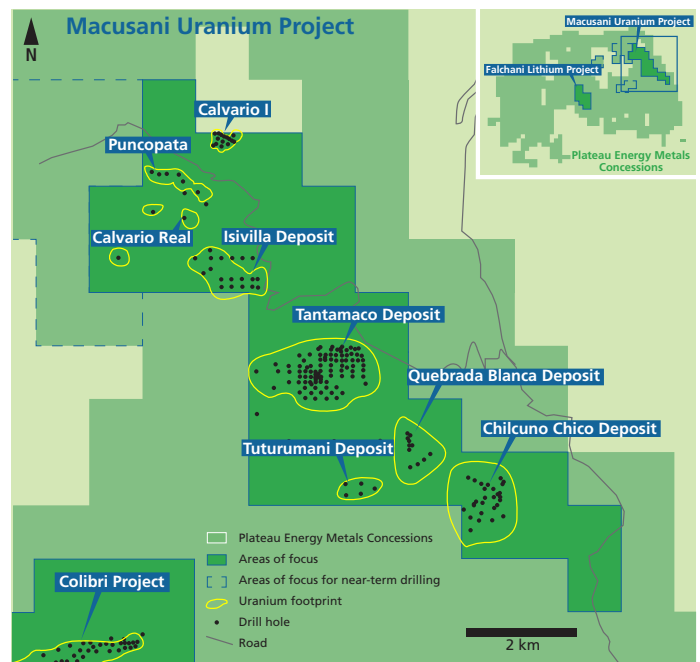
- Measured & Indicated: 52.9 Mlbs U<sub>3</sub>O<sub>8</sub> (248ppm)
- Inferred: 72.1 Mlbs U<sub>3</sub>O<sub>8</sub> (251ppm)

## Growth

- +45 targets around the existing defined deposit

\*\* Using US\$50.00/lb Uranium price. Refer to "Macusani Project NI 43-101 Report – Preliminary Economic Assessment" (PEA) filed on Feb 10, 2016 on SEDAR. The PEA is preliminary in nature, it includes inferred mineral resources that are considered too speculative geologically to have the economic considerations applied to them that would enable them to be categorized as mineral reserves. Mineral resources that are not mineral reserves do not have demonstrated economic viability.

\*\*\* Refer to "Consolidated Mineral Resource estimates for the Kihitian, Isivilla and Corani Uranium Complexes controlled by Plateau Uranium Inc., in the Puno District of Peru", filed on SEDAR in June 2015, prepared by Mr. David Young, of The Mineral Corporation, an Independent QP under NI 43-101. Mineral resources that are not mineral reserves do not have demonstrated economic viability.



# Falchani Growth Plan

Q1 2019 (Complete)

## Falchani Resource Update

Incorporating Falchani West expansion drilling and Falchani East delineation + drilling post-resource  
Expanded resource +90%



Q2 2019 (Complete)

## Falchani Metallurgical Studies Ph II

Metallurgical testing on conventional processing routes can produce a high purity (99.74%) lithium carbonate product

Q2 2019 (Complete)

## Falchani Techno-economic trade-off Studies

High level trade off study selected tank leaching as the preferred processing route



Late 2019

## Falchani PEA

Lead engineer appointed  
January 2019



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<sup>1</sup> As outlined in the July 31, 2019 and August 6, 2019 news releases, 32 of the Company's concessions representing approximately 230 km<sup>2</sup> are in an administrative procedure to determine the validity of Macusani's title to the concessions. The Company has filed appeals with MINEM regarding the administrative resolutions issued (refer to August 19, 2019 news release) and the Company believes that ultimately the concessions will be resolved in its favour. Please see the August 6, 2019 news release for more information regarding the potential impact to the Company's lithium (one concession) and uranium projects (six concessions).

Cautionary Language: This fact sheet contains forward-looking statements based on the current beliefs, opinions and expectations of management regarding the Company's plans related to its properties. Forward-looking statements address future events and conditions and therefore involve inherent risks and uncertainties. Undue reliance should not be placed on forward-looking statements and information since the Company can provide no assurance that such opinions and expectations will prove to be correct and may differ materially from those reflected in the forward-looking statements. For a more complete discussion of the risk factors associated with the Company, please refer to the forward-looking statements and risks identified as they pertain to specific Company content i.e.; NI 43-101 Technical Reports, financial statements and Management's Discussion & Analysis which are available at www.sedar.com. Mr. Ted O'Connor, P. Geo, a Director of the Company and a Qualified Person under NI 43-101, has reviewed and approved the scientific and technical information contained in this fact sheet.